GOVERNMENT OF INDIA
PETROLEUM AND NATURAL GAS
LOK SABHA

STARRED QUESTION NO:443
ANSWERED ON:23.08.2001
RATE OF RECOVERY OF OIL FROM WELLS
CHANDRA BHUSHAN SINGH

Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

(a) Whether the rate of recovery from most of the existing oil wells ranges between 25 percent and 28 percent while in most advanced countries it has reached a level of over 40 percent going upto 60 percent;

(b) if so, the reasons therefor; and

(c) the steps taken by the Government to increase the recovery factor in oil fields without spoiling the health of the fields ?

Answer

MINISTER OF PETROLEUM & NATURAL GAS (SHRI RAM NAIK)

(a) to (c) : A statement is laid on the Table of the House.

STATEMENT REFERRED TO IN THE REPLY TO THE LOK SABHA STARRED QUESTION NO. 443 FOR ANSWER ON 2001 REGARDING `RATE OF RECOVERY OF OIL FROM WELLS`

(a) & (b): Oil recovery factor of a field is the estimated percentage of oil that can be produced from the total oil volume present therein. The recovery factor is dependent amongst other things, upon intrinsic factors such as the geology of the reservoir and type of reservoir, the drive mechanism, the petro-physical properties and the characteristics of the oil as also other factors such as the production technologies used, the investment made and the applicable fiscal regime. The estimated average recovery factor of normal oil, for the fields in India is currently around 28%. The oil recovery factor for Oil & Natural Gas Corporation Ltd. (ONGC) fields ranges from 15% to 54%, for Oil India Ltd. (OIL) fields from 20% to 50% and for the joint venture/private sector fields from 11% to 55%. Internationally, there is an equally wide variation in the recovery factor from field to field ranging generally between 15% and 60%.

(c): The National Oil Companies(NOCs), ONGC and OIL, undertake Enhanced Oil Recovery (EOR)/Improved Oil Recovery(IOR plans to optimize oil production in a scientific manner and thus increase the recovery factor. For Private/JV operated fields, the oil production takes place in terms of the Development Plan envisaged under the respective Production Sharing Contracts.